

## EAST Search History

| Ref # | Hits   | Search Query   | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|--------|--|--|------------------|---------|------------------|
| S199  | 15     | "573495"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR               | ON      | 2007/12/11 16:50 |
| S200  | 3      | "573495".ap.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR               | ON      | 2007/12/11 17:27 |
| S201  | 4      | (shap\$2 or string or hair)adj protrusions and ESR   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR               | ON      | 2007/12/11 17:30 |
| S202  | 241    | protrusions and ESR                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR               | ON      | 2007/12/11 17:38 |
| S203  | 1501   | 29/25.03.ccls.                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR               | ON      | 2007/12/11 17:41 |
| S204  | 166829 | protrusion and @ad<"20040924"                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR               | ON      | 2007/12/11 17:41 |
| S205  | 36     | S203 and S204  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR               | ON      | 2007/12/11 17:48 |
| S206  | 25     | "4943892"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR               | ON      | 2007/12/11 17:50 |
| S207  | 1      | "7202495"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR               | ON      | 2007/12/11 17:52 |
| S208  | 9      | "4724053"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR               | ON      | 2007/12/11 18:33 |
| S209  | 17     | feather near4 protrusion                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR               | ON      | 2007/12/11 18:35 |
| S210  | 37     | feather near4 protrusion                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/12/11 18:49 |
| S211  | 1      | feather near4 protrusion (dielectric or insulat\$3 ) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | WITH             | ON      | 2007/12/11 18:49 |

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|          |        |   |  |      |    |                  |
|----------|--------|---|--|------|----|------------------|
| S21<br>2 | 12657  | protrusion (dielectric or insulat\$3 )                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | WITH | ON | 2007/12/11 18:49 |
| S21<br>3 | 1080   | protrusion (dielectric or insulat\$3 )                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2007/12/11 18:49 |
| S21<br>4 | 871    | protrusion (dielectric or insulat\$3 )and @ad<"20040924"                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2007/12/11 18:50 |
| S21<br>5 | 17     | protrusion (dielectric or insulat\$3 )same capacitor and @ad<"20040924" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2007/12/11 18:52 |
| S21<br>6 | 114    | protrusion (dielectric or insulat\$3 )and capacitor and @ad<"20040924"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2007/12/11 18:52 |
| S21<br>7 | 0      | feather (dielectric or insulat\$3 )and capacitor and @ad<"20040924"     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2007/12/11 18:52 |
| S21<br>8 | 6      | feather (dielectric or insulat\$3 )and capacitor and @ad<"20040924"     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | WITH | ON | 2007/12/11 18:52 |
| S21<br>9 | 42     | "266922"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR   | ON | 2007/12/12 15:26 |
| S22<br>0 | 0      | "266922"  | JPO  | OR   | ON | 2007/12/12 15:26 |
| S22<br>1 | 6      | "266922"  | EPO; JPO;<br>DERWENT   | OR   | ON | 2007/12/12 15:30 |
| S22<br>2 | 0      | matsushita denki sangyo k k   | EPO; JPO;<br>DERWENT   | ADJ  | ON | 2007/12/12 15:30 |
| S22<br>3 | 154434 | matsushita denki sangyo   | EPO; JPO;<br>DERWENT   | ADJ  | ON | 2007/12/12 15:32 |

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|          |        |  |  |      |    |                  |
|----------|--------|--|--|------|----|------------------|
| S22<br>4 | 0      | matsushita denki sangyo  | JPO  | ADJ  | ON | 2007/12/12 15:30 |
| S22<br>5 | 0      | "1990266922"   | EPO; JPO;<br>DERWENT   | ADJ  | ON | 2007/12/12 15:32 |
| S22<br>6 | 0      | "199066922"  | EPO; JPO;<br>DERWENT   | ADJ  | ON | 2007/12/12 15:47 |
| S22<br>7 | 2      | "02069922"   | EPO; JPO;<br>DERWENT   | ADJ  | ON | 2007/12/12 15:50 |
| S22<br>8 | 1      | "4943892"  | EPO; JPO;<br>DERWENT   | ADJ  | ON | 2007/12/12 15:50 |
| S22<br>9 | 26     | "4943892"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ  | ON | 2007/12/12 15:50 |
| S23<br>0 | 27     | ("3454473"   "3621342"   "4009424"   "4105513"   "4580855"   "4785380"   "4803596").PN. OR ("4943892").URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR   | ON | 2007/12/12 16:45 |
| S23<br>1 | 1      | "20070002526"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR   | ON | 2007/12/12 17:29 |
| S23<br>2 | 150468 | (electlytic\$4 or voltage or v or power adj supply) with ( protrusions or dot or shape)                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR   | ON | 2007/12/12 17:33 |
| S23<br>3 | 153530 | (electrolytic\$4 or voltage or v or power adj supply) with ( protrusions or dot or shape)                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR   | ON | 2007/12/12 17:33 |
| S23<br>4 | 153530 | (electrolytic\$4 or voltage or "v" or power adj supply) with ( protrusions or dot or shape)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR   | ON | 2007/12/12 17:33 |
| S23<br>5 | 5017   | ( voltage or "v" or power adj supply) with ( protrusions )   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR   | ON | 2007/12/12 17:34 |
| S23<br>7 | 0      | ( voltage or "v" or power adj supply) with ( protrusions )capaciitor and @ad<"20031003"                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 17:35 |
| S23<br>8 | 0      | ( voltage or "v" or power adj supply) with ( protrusions )capaciitor and @ad<"20031003"                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | WITH | ON | 2007/12/12 17:35 |
| S23<br>9 | 39     | ( voltage or "v" or power adj supply) with ( protrusions )capacitor and @ad<"20031003"                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | WITH | ON | 2007/12/12 17:48 |
| S24<br>0 | 55     | ( voltage or "v" or power adj supply) with ( protrusions )capacitor  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | WITH | ON | 2007/12/12 17:49 |
| S24<br>1 | 11362  | (protrusion or needles or pyramids or dots or spots) form\$3 ( voltage or "v" or power adj supply)           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | WITH | ON | 2007/12/12 17:51 |

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|          |       |  |  |      |    |                  |
|----------|-------|--|--|------|----|------------------|
| S24<br>2 | 276   | (protrusion or needles or pyramids or dots or spots) form\$3 ( voltage or "v" or power adj supply)same capacitor | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | WITH | ON | 2007/12/12 17:54 |
| S24<br>3 | 89    | (protrusion or needles or pyramids ) form\$3 ( voltage or "v" or power adj supply)same capacitor                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | WITH | ON | 2007/12/12 18:01 |
| S24<br>4 | 98582 | electrolytic solution with protrusions   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR   | ON | 2007/12/12 18:07 |
| S24<br>5 | 34    | electrolytic solution with protrusions   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | WITH | ON | 2007/12/12 18:01 |
| S24<br>6 | 129   | electrolytic\$4 form\$3 with protrusions   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | WITH | ON | 2007/12/12 18:08 |
| S24<br>7 | 51    | apply\$3 near4 (voltage or "v") form\$3 with protrusions   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | WITH | ON | 2007/12/12 18:09 |
| S24<br>8 | 29    | apply\$3 near4 (voltage or "v") form\$3 with protrusions and @ad<"20031003"                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | WITH | ON | 2007/12/12 18:11 |
| S24<br>9 | 51    | apply\$3 near4 (voltage or "v") form\$3 with protrusions   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | WITH | ON | 2007/12/12 18:11 |
| S25<br>0 | 78    | apply\$3 near4 (voltage or "v") form\$3 with protrusions   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | WITH | ON | 2007/12/12 18:17 |
| S25<br>1 | 7148  | solid electrolytic capacitor   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2007/12/12 18:18 |
| S25<br>2 | 0     | solid electrolytic capacitor and @ad<"0031003"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2007/12/12 18:18 |
| S25<br>3 | 5298  | solid electrolytic capacitor and @ad<"20031003"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2007/12/12 18:18 |

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|          |        |  |  |      |    |                  |
|----------|--------|--|--|------|----|------------------|
| S25<br>5 | 69     | solid electrolytic capacitor and protrusions and @ad<"20031003"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2007/12/12 18:29 |
| S25<br>6 | 13     | ("4307507"   "4414023"   "4448485"   "4591717"   "5017007"   "5055145"   "5140393"   "5381753"   "5447878"   "5479106"   "5693208"   "5811917"   "5993715").PN. OR ("6810575").URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR   | ON | 2007/12/12 18:52 |
| S25<br>7 | 855434 | metal adj oxide protrusions capacitor  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR   | ON | 2007/12/12 18:53 |
| S25<br>8 | 9      | metal adj oxide protrusions capacitor  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 19:04 |
| S25<br>9 | 20     | solution electrolytic\$4 react\$3 protrusions  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 19:10 |
| S26<br>0 | 3      | solution electrolytic\$4 volts protrusions   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 19:11 |
| S26<br>1 | 181    | solution electrolytic\$4 volts (protrusions or metal adj oxide or manganese adj oxide)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 19:12 |
| S26<br>2 | 44     | solution electrolytic\$4 volts (protrusions or metal adj oxide or manganese adj oxide)and @ad<"20031003"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 19:18 |
| S26<br>3 | 27     | ("3454473"   "3621342"   "4009424"   "4105513"   "4580855"   "4785380"   "4803596").PN. OR ("4943892").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR   | ON | 2007/12/12 19:17 |
| S26<br>4 | 44     | solution electrolytic\$4 volts (protrusions or particles)and @ad<"20031003"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 19:20 |
| S26<br>5 | 3      | solution electrolytic\$4 volts (protrusions or particles)capacitor and @ad<"20031003"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 19:20 |
| S26<br>6 | 13     | ("3054029"   "3320484"   "3320494").PN. OR ("3621342").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR   | ON | 2007/12/12 19:22 |
| S26<br>7 | 0      | electrolitically forming (protrusion or particles) dielectric adj layer  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 19:23 |
| S26<br>8 | 10     | electrolytically forming (protrusion or particles) dielectric adj layer  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 19:30 |
| S26<br>9 | 0      | electrolytically molybdate nickel dielectric adj layer   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 19:30 |

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|          |      |   |  |      |    |                  |
|----------|------|---|--|------|----|------------------|
| S27<br>0 | 1    | molybdate nickel dielectric adj layer   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 19:31 |
| S27<br>1 | 26   | molybdate nickel and dielectric adj layer   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 19:33 |
| S27<br>2 | 1    | protrusions molybdate nickel and dielectric adj layer   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 19:33 |
| S27<br>3 | 4    | protrusions and molybdate nickel and dielectric adj layer   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | SAME | ON | 2007/12/12 19:35 |
| S27<br>4 | 5    | "3984911"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | OR   | ON | 2007/12/12 19:41 |
| S27<br>5 | 455  | reduce esr  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | WITH | ON | 2007/12/12 19:41 |
| S27<br>6 | 218  | reduce esr and @ad<"20031003"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS                                      | WITH | ON | 2007/12/12 19:42 |
| S27<br>7 | 12   | ("5005107"   "5621608"   "5729428"   "5748271"   "5781401"<br>  "6154358"   "6162563"   "6229689").PN. OR ("6343005").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR   | ON | 2007/12/12 19:48 |
| S27<br>8 | 18   | ("5473503"   "5812367"   "5914852").PN. OR ("6154358").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR   | ON | 2007/12/12 19:51 |
| S27<br>9 | 1027 | electrolytic\$4 form\$3 (protrusions or dimples or depressions)   | US-PGPUB;<br>USPAT;<br>USOCR   | SAME | ON | 2007/12/12 19:52 |
| S28<br>0 | 81   | electrolytic\$4 form\$3 (protrusions or dimples or depressions)<br>capacitor  | US-PGPUB;<br>USPAT;<br>USOCR   | SAME | ON | 2007/12/12 19:55 |
| S28<br>1 | 0    | electrolytic\$4 near form\$3 near(protrusions or dimples or<br>depressions) capacitor   | US-PGPUB;<br>USPAT;<br>USOCR   | SAME | ON | 2007/12/12 19:55 |
| S28<br>2 | 2    | electrolytic\$4 near(protrusions or dimples or depressions)<br>capacitor  | US-PGPUB;<br>USPAT;<br>USOCR   | SAME | ON | 2007/12/12 19:56 |
| S28<br>3 | 55   | electrolytic\$4 with(protrusions or dimples or depressions)<br>capacitor  | US-PGPUB;<br>USPAT;<br>USOCR   | SAME | ON | 2007/12/12 19:57 |
| S28<br>4 | 23   | electrolytic\$4 with(protrusions or dimples or depressions)<br>capacitor and @ad<"20031003"                                     | US-PGPUB;<br>USPAT;<br>USOCR   | SAME | ON | 2007/12/12 19:58 |
| S28<br>5 | 91   | electrolytic\$4 with(protrusions or dimples or depressions)<br>capacitor and @ad<"20031003"                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | SAME | ON | 2007/12/12 20:00 |

## EAST Search History

|          |     |  |  |      |    |                  |
|----------|-----|--|--|------|----|------------------|
| S28<br>6 | 3   | electrolytic\$4 near(protrusions or dimples or recess) capacitor and @ad<"20031003"                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | SAME | ON | 2007/12/12 20:00 |
| S28<br>7 | 39  | electrolytic\$4 near(protrusions or dimples or recess) and @ad<"20031003"                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | SAME | ON | 2007/12/12 20:00 |
| S28<br>8 | 451 | electrolytic\$4 form (protrusions or dimples or recess) and @ad<"20031003"                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | SAME | ON | 2007/12/12 20:01 |
| S28<br>9 | 0   | electrolytic\$4 form (protrusions or dimples or recess) and @ad<"20031003"                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | NEAR | ON | 2007/12/12 20:01 |
| S29<br>0 | 0   | (dipping or immersing) room temperature (protrusions or dimples or recess) and capacitor and @ad<"20031003"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | WITH | ON | 2007/12/12 20:02 |
| S29<br>1 | 21  | (dipping or immersing) (protrusions or dimples or recess) and capacitor and @ad<"20031003"                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | WITH | ON | 2007/12/12 20:04 |
| S29<br>2 | 0   | electrolytic same (dipping or immersing) (protrusions or dimples or recess) and capacitor and @ad<"20031003" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | WITH | ON | 2007/12/12 20:04 |
| S29<br>3 | 3   | electrolytic same (dipping or immersing) (protrusions or dimples or recess) and capacitor and @ad<"20031003" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | SAME | ON | 2007/12/12 20:05 |
| S29<br>4 | 4   | voltage same (dipping or immersing) (protrusions or dimples or recess) and capacitor and @ad<"20031003"      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | SAME | ON | 2007/12/12 20:06 |

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|          |   |   |  |      |    |                  |
|----------|---|---|--|------|----|------------------|
| S29<br>5 | 0 | volts same (dipping or immersing) (protrusions or dimples or recess) and capacitor and @ad<"20031003" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | SAME | ON | 2007/12/12 20:06 |
| S29<br>6 | 0 | v same (dipping or immersing) (protrusions or dimples or recess) and capacitor and @ad<"20031003"     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | SAME | ON | 2007/12/12 20:09 |